

ABSTRACT

A toecap comprises woven layers each composed of continuous strands of prepreg material. In a particular embodiment, the continuous strands in each layer are aligned in a layer-specific orientation. In a preferred embodiment, the layer specific orientation of a first of said layer is orthogonal to an orientation of a second layer. In another preferred embodiment, the layer specific orientation of a first layer is oriented at forty-five degrees from an orientation of a second layer. In another preferred embodiment, the woven layers further comprise a hybrid layer having a sheet-molding compound (SMC) layer.

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